

Human Paraoxonase 3 (PON3) ELISA Kit | PON3 elisa kit

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CATALOG #
AAA331376

REACTIVITY
Human

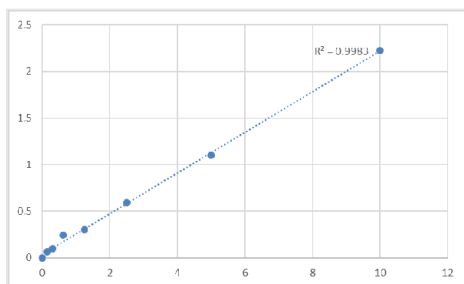
PRODUCT SYNONYMS

Paraoxonase 3 (PON3); Human Paraoxonase 3 (PON3) ELISA Kit; PON3; Paraoxanase-3; serum paraoxonase/lactonase 3; PON3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Paraoxonase 3 (PON3) ELISA Kit has high sensitivity and excellent specificity for detection of Human PON3. No significant cross-reactivity or interference between Human PON3 and analogues was observed.
Sequence Length	354
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Paraoxonase 3 (PON3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PON3 elisa kit	Description: This Human Paraoxonase 3 (PON3) ELISA Kit employs a two-site sandwich ELISA to quantitate PON3 in samples. An antibody specific for PON3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PON3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PON3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PON3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Members of the paraoxonase (EC 3.1.1.2) gene family, such as PON3, encode high density lipoprotein (HDL)-related glycoproteins with multienzymatic properties. (Lu et al., 2006).Lu et al. (2006) cloned PON3 from a fetal liver cDNA library. The deduced mature protein has 354 amino acids and a calculated molecular mass of 39.6 kD. It contains 3 cysteines that are conserved in PON1 and PON2. Cys41 and cys351 are predicted to form an intramolecular disulfide bond, and cys283 is predicted to be involved in antioxidant activity. Using nondenaturing PAGE, Draganov et al. (2005) observed native recombinant PON3 at an apparent molecular mass of 94.9 kD, suggesting that it probably forms dimers. Glycosidase treatment of human serum PON3 suggested that the secreted form of PON3 contains complex carbohydrates.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	29788996
NCBI GeneID	5446
NCBI Accession #	NP_000931.1
NCBI GenBank Nucleotide #	NP_000931.1
UniProt Accession #	Q15166
NCBI Official Full Name	serum paraoxonase/lactonase 3
NCBI Official Synonym Full Names	paraoxonase 3
NCBI Official Symbol	PON3
NCBI Protein Information	serum paraoxonase/lactonase 3
UniProt Protein Name	Serum paraoxonase/lactonase 3
UniProt Gene Name	PON3
UniProt Entry Name	PON3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.